ELSEVIER

15 January 1998

Optics Communications 146 (1998) 381–388

OPTICS COMMUNICATIONS

Author index to volume 146

Altucci, C., see de Lisio, C. 146 (1998) 316
Assanto, G., see Leo, G. 146 (1998) 356
Assanto, G., see Masi, M.G. 146 (1998) 95
Atutov, S.N., R. Calabrese, V. Guidi, P. Lenisa, E. Mariotti, L. Moi, S. Petruio and A.M. Shalagin, Frequency stabilisation of a broad-band dye laser by light-induced drift 146 (1998) 196
Auen, K., see Vey, J.-L. 146 (1998) 325
Auger, L.S., see Lin, H. 146 (1998) 371

Baba, N., Y. Norimoto, N. Miura, S. Cuevas and A. Ruelas-Mayorga, Stellar imaging with reference to a widely separated star 146 (1998) 74
Bang, O., L. Bergé and J.J. Rasmussen, Wave collapse in bulk media with quadratic and cubic responses 146 (1998) 231
Bao, C., see Pérez, M.V. 146 (1998) 302
Barton, J.S., see Bownass, D.C. 146 (1998) 90
Bay, S. and P. Lambropoulos, Strongly non-Lorentzian emission spectra in a radiative cascade 146 (1998) 130
Beléndez, A., see Bányász, I. 146 (1998) 379
Bellini, M., see de Lisio, C. 146 (1998) 316
Beneduce, C., see de Lisio, C. 146 (1998) 316
Bergé, L., see Bang, O. 146 (1998) 231
Binks, D.J., D.K. Ko, L.A.W. Gloster and T.A. King, Pulsed single mode laser oscillation in a new coupled cavity design 146 (1998) 173
Bird, J.F., Variational trial-functions for rough-surface scattering 146 (1998) 1
Bloch, D., see Li, R.N. 146 (1998) 186
Blow, K.J., see Poustie, A.J. 146 (1998) 262
Bonifacio, R., Photon statistics and quantum fluctuations in a Collective Atomic Recoil Laser (CARL) 146 (1998) 236
Bownass, D.C., J.S. Barton and J.D.C. Jones, Detection of high humidity by optical fibre sensing at telecommunications wavelengths 146 (1998) 90
Bozhevolnyi, S.I., see Madsen, S. 146 (1998) 277
Brozek, O.S., V. Quetschke, A. Wicht and K. Danzmann, Highly efficient cw frequency doubling of 854 nm GaAlAs diode lasers in an external ring cavity 146 (1998) 141
Brunel, M., see Roshchupkin, D.V. 146 (1998) 25
Bruzzese, R., see de Lisio, C. 146 (1998) 316
Buse, K., see Korneev, N. 146 (1998) 215

Cai, S.M., see Tang, M. 146 (1998) 21
Calabrese, R., see Atutov, S.N. 146 (1998) 196
Carretero, L., see Bányász, I. 146 (1998) 379
Cedilnik, G., see Shamonina, E. 146 (1998) 62
Chai, B.H.T., see Gloster, L.A.W. 146 (1998) 177
Chen, H., see Liu, B. 146 (1998) 34
Chipman, R.A., see Lu, S.-Y. 146 (1998) 11
Chu, P.L., see Luo, L. 146 (1998) 151
Chýlek, P. and G. Videen, Scattering by a composite sphere and effective medium approximations 146 (1998) 15
Coen, S. and M. Haelterman, Impedance-matched modulational instability laser for background-free pulse train generation in the THz range 146 (1998) 339
Cormont, P., see Gloster, L.A.W. 146 (1998) 177
Cox, A.M., see Gloster, L.A.W. 146 (1998) 177
Cristiani, I., P. Franco, M. Midrio and M. Romagnoli, Pulse generation and propagation beyond the limit of soliton spectral resonances 146 (1998) 241
Crofts, G.J., see Syed, K.S. 146 (1998) 181
Cuevas, S., see Baba, N. 146 (1998) 74

Damzen, M.J., see Syed, K.S. 146 (1998) 181
Danzmann, K., see Brozek, O.S. 146 (1998) 141
De Filippo, F., see de Lisio, C. 146 (1998) 316
De Lisio, C., C. Altucci, C. Beneduce, R. Bruzzese, F. De Filippo, S. Solimeno, M. Bellini, A. Tozzi, G. Tondello and E. Pace, Analysis of efficient generation and spatial intensity profiles of high-order harmonic beams produced at high repetition rate 146 (1998) 316
Deng, L., see Payne, M.G. 146 (1998) 257
Dorsch, R.G., see Lohmann, A.W. 146 (1998) 55
Ducloy, M., see Li, R.N. 146 (1998) 186

Ebrahimzadeh, M., see Penman, Z.E. 146 (1998) 147
Elsäßer, W., see Vey, J.-L. 146 (1998) 325

Fedosejevs, R., see Wang, X.F. 146 (1998) 363
Fimia, A., see Bányász, I. 146 (1998) 379
Foot, C.J., see Zemánek, P. 146 (1998) 119
Franco, P., see Cristiani, I. 146 (1998) 241
Frantzeskakis, D., see Mendonça, J.T. 146 (1998) 245
Frieden, B.R. and D.J. Graser, Closed-form maximum entropy image restoration 146 (1998) 79

Gabrysch, M., see Giacomelli, G. 146 (1998) 136
Gadonas, R., A. Marcinkevičius, A. Piskarskas, V. Smilgevičius and A. Stabinis, Travelling wave optical parametric generator pumped by a conical beam 146 (1998) 253
Gangopadhyay, S. and S.N. Sarkar, Misalignment considerations in laser diode to single-mode fibre excitation via hyperbolic lens on the fibre tip 146 (1998) 104
Garrett, W.R., see Payne, M.G. 146 (1998) 257
Gerwens, A., see Korneev, N. 146 (1998) 215
Gesland, J.Y., see Rambaldi, P. 146 (1998) 163

Giacomelli, G., F. Marin, M. Gabrysch, K.H. Gulden and M. Moser, Polarization competition and noise properties of VCSELs 146 (1998) 136
Gloster, L.A.W., P. Cormont, A.M. Cox, T.A. King and B.H.T. Chai, Diode-pumped Q-switched Yb:S-FAP laser 146 (1998) 177
Gloster, L.A.W., see Binks, D.J. 146 (1998) 173
Gómez-Reino, C., see Pérez, M.V. 146 (1998) 302
Gong, L., Q. Li and Y. Chen, Electromagnetic field analysis of a curved antiresonant reflecting optical waveguide (Optics Comm. 138 (1997) 293 146 (1998) 379
Goulkov, M., see Neumann, J. 146 (1998) 220
Graser, D.J., see Frieden, B.R. 146 (1998) 79
Guan, K., see Yu, J. 146 (1998) 109
Guidi, V., see Atutov, S.N. 146 (1998) 196
Gulden, K.H., see Giacomelli, G. 146 (1998) 136

Haelterman, M., see Coen, S. 146 (1998) 339
Hasegawa, A., see Omatsu, T. 146 (1998) 167
Hatano, S., see Omatsu, T. 146 (1998) 167
Hatsagortsian, K.Z. and A.L. Khachatryan, The effect of energy and angular spread of an electron beam on the stimulated Coherent Bremsstrahlung gain in a crystal 146 (1998) 114
Hilbrich, S., see Krüger, M. 146 (1998) 309
Hizanidis, K., see Mendonça, J.T. 146 (1998) 245
Hollandt, J., see Sommerer, G. 146 (1998) 347
Horiuchi, H., see Iida, K. 146 (1998) 6
Hsieh, W.-F., see Wei, M.-D. 146 (1998) 201
Hudson, T.D., see Li, C.-T. 146 (1998) 285
Hvam, J.M., see Madsen, S. 146 (1998) 277

Iida, K., H. Horiuchi, O. Matoba, T. Omatsu, T. Shimura and K. Kuroda, Injection locking of a broad-area diode laser through a double phase-conjugate mirror 146 (1998) 6

Jia, S.T., see Li, R.N. 146 (1998) 186
Jones, J.D.C., see Bownass, D.C. 146 (1998) 90
Jundt, D.H., see Penman, Z.E. 146 (1998) 147

Kamenov, V.P., see Shamonina, E. 146 (1998) 62
Katoh, A., see Omatsu, T. 146 (1998) 167
Khachatryan, A.L., see Hatsagortsian, K.Z. 146 (1998) 114
Kießling, A., see Shamonina, E. 146 (1998) 62
King, T.A., see Binks, D.J. 146 (1998) 173
King, T.A., see Gloster, L.A.W. 146 (1998) 177
Ko, D.K., see Binks, D.J. 146 (1998) 173
Kondakov, A.S., see Roshchupkin, D.V. 146 (1998) 25
Korneev, N., D. Mayorga, S. Stepanov, A. Gerwens, K. Buse and E. Krätzig, Characterization of photorefractive strontium-barium niobate with non-steady-state holographic photocurrents 146 (1998) 215
Koshihara, S., see Mononobe, S. 146 (1998) 45
Koster, A., see Layadi, A. 146 (1998) 31

Kowarschik, R., see Shamonina, E. 146 (1998) 62
Krätzig, E., see Korneev, N. 146 (1998) 215
Krätzig, E., see Neumann, J. 146 (1998) 220
Krüger, M., S. Hilbrich, M. Thönissen, D. Scheyen, W. Theiß and H. Lüth, Suppression of ageing effects in porous silicon interference filters 146 (1998) 309
Kryuchkyan, G.Yu., N.T. Mouradyan and A.S. Sargsian, Controlling instabilities in an intracavity frequency doubler 146 (1998) 208
Kuroda, K., see Iida, K. 146 (1998) 6

Lambropoulos, P., see Bay, S. 146 (1998) 130
Layadi, A., A. Vonsovici, R. Orobtchouk, D. Pascal and A. Koster, Low-loss optical waveguide on standard SOI/SIMOX substrate 146 (1998) 31
Lee, W.-K., see She, W.-l. 146 (1998) 249
Lenisa, P., see Atutov, S.N. 146 (1998) 196
Leo, G. and G. Assanto, Multiple branching of vectorial spatial solitary waves in quadratic media 146 (1998) 356
Levenson, M.D., see Rosenbluh, M. 146 (1998) 158
Li, C.-T., J. Li, S. Yin, T.D. Hudson and D.K. McMillen, Synthesize multi-level composite filter for synthetic-aperture radar image identification 146 (1998) 285
Li, J., see Li, C.-T. 146 (1998) 285
Li, R.N., S.T. Jia, D. Bloch and M. Ducloy, Frequency-stabilization of a diode laser with ultra-low power through linear selective reflection 146 (1998) 186
Lin, H., A. Yousuf, D.W. Weir and L.S. Auger, Low reflectivity and instability of a self-pumped phase conjugator caused by reflection gratings in $+c$-face incidence 146 (1998) 371
Lin, X., J. Ohtsubo and M. Mori, Capacity of optical associative memory using a terminal attractor model 146 (1998) 49
Liu, B., L. Liu, L. Shao and H. Chen, Matrix–vector multiplication in a photorefractive crystal 146 (1998) 34
Liu, L., see Liu, B. 146 (1998) 34
Liu, Z.F., see Tang, M. 146 (1998) 21
Lohmann, A.W., Z. Zalevsky, R.G. Dorsch and D. Mendlovic, Experimental considerations and scaling property of the fractional Fourier transform 146 (1998) 55
Loza-Alvarez, P., see Penman, Z.E. 146 (1998) 147
Lu, S.-Y. and R.A. Chipman, Mueller matrices and the degree of polarization 146 (1998) 11
Luo, L., T.J. Tee and P.L. Chu, Bistability of erbium-doped fiber laser 146 (1998) 151
Lüth, H., see Krüger, M. 146 (1998) 309

Madsen, S., S.I. Bozhevolnyi and J.M. Hvam, Sub-wavelength imaging by depolarization in a reflection near-field optical microscope using an uncoated fiber probe 146 (1998) 277
Manning, R.J., see Poustie, A.J. 146 (1998) 262
Marcinkevičius, A., see Gadonas, R. 146 (1998) 253
Marin, F., see Giacomelli, G. 146 (1998) 136
Mariotti, E., see Atutov, S.N. 146 (1998) 196
Masi, M.G. and G. Assanto, Prism coupling into second-order nonlinear waveguides 146 (1998) 95
Masoliver, J., see Weiss, G.H. 146 (1998) 268
Matoba, O., see Iida, K. 146 (1998) 6
Mayorga, D., see Korneev, N. 146 (1998) 215

McMillen, D.K., see Li, C.-T. 146 (1998) 285
Mendlovic, D., see Lohmann, A.W. 146 (1998) 55
Mendonça, J.T., K. Hizanidis and D. Frantzeskakis, Method for generating tunable high-frequency harmonics in periodically modulated $\chi^{(2)}$ materials 146 (1998) 245
Mendricks, S., see Neumann, J. 146 (1998) 220
Mevel, E., see Sommerer, G. 146 (1998) 347
Mezentsev, V.K. and S.K. Turitsyn, Soliton with Gaussian tails as a carrier pulse in optical communication systems with in-line phase modulators 146 (1998) 225
Midrio, M., see Cristiani, I. 146 (1998) 241
Miura, N., see Baba, N. 146 (1998) 74
Mizumoto, T., see Park, K.-H. 146 (1998) 99
Moi, L., see Atutov, S.N. 146 (1998) 196
Moncorgé, R., see Rambaldi, P. 146 (1998) 163
Mononobe, S., T. Saiki, T. Suzuki, S. Koshihara and M. Ohtsu, Fabrication of a triple tapered probe for near-field optical spectroscopy in UV region based on selective etching of a multistep index fiber 146 (1998) 45
Mori, M., see Lin, X. 146 (1998) 49
Moser, M., see Giacomelli, G. 146 (1998) 136
Mouradyan, N.T., see Kryuchkyan, G.Yu. 146 (1998) 208
Müstecaplıoğlu, Ö.E., see Shumovsky, A.S. 146 (1998) 124

Naito, Y., see Park, K.-H. 146 (1998) 99
Neumann, J., S. Mendricks, E. Krätzig, M. Goulkov and S. Odoulov, Photorefractive light amplification by forward four-wave mixing in $BaTiO_3$ 146 (1998) 220
Nickles, P.V., see Sommerer, G. 146 (1998) 347
Nordman, N., see Nordman, O. 146 (1998) 69
Nordman, O., N. Nordman and J. Teteris, On thermal influence of laser beam irradiation on optical absorption of amorphous as-evaporated As_2S_3 films 146 (1998) 69
Norimoto, Y., see Baba, N. 146 (1998) 74

Odoulov, S., see Neumann, J. 146 (1998) 220
Ogura, I., see Omatsu, T. 146 (1998) 167
Ohtsu, M., see Mononobe, S. 146 (1998) 45
Ohtsubo, J., see Lin, X. 146 (1998) 49
Okada, K., see Omatsu, T. 146 (1998) 167
Omatsu, T., A. Katoh, K. Okada, S. Hatano, A. Hasegawa, M. Tateda and I. Ogura, Investigation of photorefractive phase conjugate feedback on the lasing spectrum of a broad-stripe laser diode 146 (1998) 167
Omatsu, T., see Iida, K. 146 (1998) 6
Orobtchouk, R., see Layadi, A. 146 (1998) 31

Pace, E., see de Lisio, C. 146 (1998) 316
Park, K.-H., T. Mizumoto and Y. Naito, Recognition and separation of header for all optical ATM 146 (1998) 99
Pascal, D., see Layadi, A. 146 (1998) 31
Payne, M.G., L. Deng and W.R. Garrett, Third harmonic generation and destructive interference with femtosecond laser pulses 146 (1998) 257

Pédrini, C., see Rambaldi, P. 146 (1998) 163
Penman, Z.E., P. Loza-Alvarez, D.T. Reid, M. Ebrahimzadeh, W. Sibbett and D.H. Jundt, All-solid-state mid-infrared femtosecond optical parametric oscillator based on periodically-poled lithium niobate 146 (1998) 147
Pérez, M.V., C. Bao and C. Gómez-Reino, On-axis and off-axis butt-joining coupling by GRIN tapered planar waveguides with hyperbolic secant refractive-index profiles: Numerical aperture conversion and position and angle transformations 146 (1998) 302
Peterson, P. and M.P. Sharma, Back-reflection pumping versus contradirectional pumping in upconversion solid state lasers 146 (1998) 189
Petruio, S., see Atutov, S.N. 146 (1998) 196
Piskarskas, A., see Gadonas, R. 146 (1998) 253
Porrà, J.M., see Weiss, G.H. 146 (1998) 268
Poustie, A.J., K.J. Blow and R.J. Manning, Storage threshold and amplitude restoration in an all-optical regenerative memory 146 (1998) 262

Quetschke, V., see Brozek, O.S. 146 (1998) 141

Rambaldi, P., R. Moncorgé, J.P. Wolf, C. Pédrini and J.Y. Gesland, Efficient and stable pulsed laser operation of Ce:$LiLuF_4$ around 308 nm 146 (1998) 163
Rasmussen, J.J., see Bang, O. 146 (1998) 231
Reid, D.T., see Penman, Z.E. 146 (1998) 147
Ringhofer, K.H., see Shamonina, E. 146 (1998) 62
Romagnoli, M., see Cristiani, I. 146 (1998) 241
Rosenbluh, M., A. Rosenhouse-Dantsker, A.D. Wilson-Gordon, M.D. Levenson and R. Walser, Spectroscopy with diode-laser noise 146 (1998) 158
Rosenhouse-Dantsker, A., see Rosenbluh, M. 146 (1998) 158
Roshchupkin, D.V., I.A. Schelokov, R. Tucoulou, A.S. Kondakov and M. Brunel, X-ray focusing by a 1D-grazing incidence Fresnel zone plate modulated by a surface acoustic wave 146 (1998) 25
Ruelas-Mayorga, A., see Baba, N. 146 (1998) 74

Saiki, T., see Mononobe, S. 146 (1998) 45
Saloma, C., Approximating a desired temporal impulse response with a pupil function that consists of a series of light pulses 146 (1998) 39
Sandner, W., see Sommerer, G. 146 (1998) 347
Sargsian, A.S., see Kryuchkyan, G.Yu. 146 (1998) 208
Sarkar, S.N., see Gangopadhyay, S. 146 (1998) 104
Schelokov, I.A., see Roshchupkin, D.V. 146 (1998) 25
Scheyen, D., see Krüger, M. 146 (1998) 309
Schulze, D., see Sommerer, G. 146 (1998) 347
Shalagin, A.M., see Atutov, S.N. 146 (1998) 196
Shamonina, E., V.P. Kamenov, K.H. Ringhofer, G. Cedilnik, A. Kießling, R. Kowarschik and D.J. Webb, Optical activity in photorefractive $Bi_{12}TiO_{20}$ 146 (1998) 62
Shao, L., see Liu, B. 146 (1998) 34
Sharma, M.P., see Peterson, P. 146 (1998) 189
She, W. and W.-K. Lee, Crystal–air interface enhanced self-pumped phase conjugation in photorefractive crystals 146 (1998) 249

Sheard, S.J., see Ura, S. 146 (1998) 85
Shimura, T., see Iida, K. 146 (1998) 6
Shumovsky, A.S. and Ö.E. Müstecaplıoğlu, Radiation phase and Stokes parameters 146 (1998) 124
Sibbett, W., see Penman, Z.E. 146 (1998) 147
Smilgevičius, V., see Gadonas, R. 146 (1998) 253
Solimeno, S., see de Lisio, C. 146 (1998) 316
Sommerer, G., E. Mevel, J. Hollandt, D. Schulze, P.V. Nickles, G. Ulm and W. Sandner, Absolute photon number measurement of high-order harmonics in the extreme UV 146 (1998) 347
Stabinis, A., see Gadonas, R. 146 (1998) 253
Stepanov, S., see Korneev, N. 146 (1998) 215
Sung, C.C., see Wei, M.-D. 146 (1998) 201
Suzuki, T., see Mononobe, S. 146 (1998) 45
Syed, K.S., G.J. Crofts and M.J. Damzen, Transient modelling of a self-starting holographic laser oscillator 146 (1998) 181

Tang, M., S.M. Cai and Z.F. Liu, Direct-nanolithography on gelatin film using scanning near-field optical microscopy 146 (1998) 21
Tateda, M., see Omatsu, T. 146 (1998) 167
Tee, T.J., see Luo, L. 146 (1998) 151
Teteris, J., see Nordman, O. 146 (1998) 69
Theiß, W., see Krüger, M. 146 (1998) 309
Thönissen, M., see Krüger, M. 146 (1998) 309
Tondello, G., see de Lisio, C. 146 (1998) 316
Tozzi, A., see de Lisio, C. 146 (1998) 316
Tsakiris, G.D., see Wang, X.F. 146 (1998) 363
Tucoulou, R., see Roshchupkin, D.V. 146 (1998) 25
Turitsyn, S.K., see Mezentsev, V.K. 146 (1998) 225

Ulm, G., see Sommerer, G. 146 (1998) 347
Ura, S. and S.J. Sheard, A configuration for guided-wave excitation into a disposable integrated-optic head 146 (1998) 85

Vey, J.-L., K. Auen and W. Elsäßer, Intensity fluctuations correlation for a Fabry Perot semiconductor laser: A semiclassical analysis 146 (1998) 325
Videen, G., see Chýlek, P. 146 (1998) 15
Vonsovici, A., see Layadi, A. 146 (1998) 31

Walser, R., see Rosenbluh, M. 146 (1998) 158
Wang, X.F., R. Fedosejevs and G.D. Tsakiris, Observation of Raman scattering and hard X-rays in short pulse laser interaction with high density hydrogen gas 146 (1998) 363
Webb, D.J., see Shamonina, E. 146 (1998) 62
Wei, M.-D., W.-F. Hsieh and C.C. Sung, Dynamics of an optical resonator determined by its iterative map of beam parameters 146 (1998) 201
Weir, D.W., see Lin, H. 146 (1998) 371
Weiss, G.H., J.M. Porrà and J. Masoliver, The continuous-time random walk description of photon motion in an isotropic medium 146 (1998) 268
Wicht, A., see Brozek, O.S. 146 (1998) 141

Wilson-Gordon, A.D., see Rosenbluh, M. 146 (1998) 158
Wolf, J.P., see Rambaldi, P. 146 (1998) 163

Yang, B., see Yu, J. 146 (1998) 109
Yin, S., see Li, C.-T. 146 (1998) 285
Yousuf, A., see Lin, H. 146 (1998) 371
Yu, J., K. Guan and B. Yang, Effects of different compensation configurations and ratios on a high speed lightwave system 146 (1998) 109

Zalevsky, Z., see Lohmann, A.W. 146 (1998) 55
Zemánek, P. and C.J. Foot, Atomic dipole trap formed by blue detuned strong Gaussian standing wave 146 (1998) 119

ELSEVIER

15 January 1998

Optics Communications 146 (1998) 389–393

OPTICS COMMUNICATIONS

Subject index to volume 146

Propagation, diffraction and scattering

J.F. Bird, Variational trial-functions for rough-surface scattering 1

K. Iida, H. Horiuchi, O. Matoba, T. Omatsu, T. Shimura and K. Kuroda, Injection locking of a broad-area diode laser through a double phase-conjugate mirror 6

S.-Y. Lu and R.A. Chipman, Mueller matrices and the degree of polarization 11

P. Chýlek and G. Videen, Scattering by a composite sphere and effective medium approximations 15

M. Tang, S.M. Cai and Z.F. Liu, Direct-nanolithography on gelatin film using scanning near-field optical microscopy 21

D.V. Roshchupkin, I.A. Schelokov, R. Tucoulou, A.S. Kondakov and M. Brunel, X-ray focusing by a 1D-grazing incidence Fresnel zone plate modulated by a surface acoustic wave 25

A. Layadi, A. Vonsovici, R. Orobtchouk, D. Pascal and A. Koster, Low-loss optical waveguide on standard SOI/SIMOX substrate 31

G.H. Weiss, J.M. Porrà and J. Masoliver, The continuous-time random walk description of photon motion in an isotropic medium 268

Optical information, image formation and analysis, optical computing

B. Liu, L. Liu, L. Shao and H. Chen, Matrix–vector multiplication in a photorefractive crystal 34

C. Saloma, Approximating a desired temporal impulse response with a pupil function that consists of a series of light pulses 39

S. Mononobe, T. Saiki, T. Suzuki, S. Koshihara and M. Ohtsu, Fabrication of a triple tapered probe for near-field optical spectroscopy in UV region based on selective etching of a multistep index fiber 45

X. Lin, J. Ohtsubo and M. Mori, Capacity of optical associative memory using a terminal attractor model 49

A.W. Lohmann, Z. Zalevsky, R.G. Dorsch and D. Mendlovic, Experimental considerations and scaling property of the fractional Fourier transform 55

E. Shamonina, V.P. Kamenov, K.H. Ringhofer, G. Cedilnik, A. Kießling, R. Kowarschik and D.J. Webb, Optical activity in photorefractive $Bi_{12}TiO_{20}$ 62

O. Nordman, N. Nordman and J. Teteris, On thermal influence of laser beam irradiation on optical absorption of amorphous as-evaporated As_2S_3 films 69

N. Baba, Y. Norimoto, N. Miura, S. Cuevas and A. Ruelas-Mayorga, Stellar imaging with reference to a widely separated star 74

B.R. Frieden and D.J. Graser, Closed-form maximum entropy image restoration 79

S. Madsen, S.I. Bozhevolnyi and J.M. Hvam, Sub-wavelength imaging by depolarization in a reflection near-field optical microscope using an uncoated fiber probe 277

Optical communications

S. Ura and S.J. Sheard, A configuration for guided-wave excitation into a disposable integrated-optic head 85

D.C. Bownass, J.S. Barton and J.D.C. Jones, Detection of high humidity by optical fibre sensing at telecommunications wavelengths 90

M.G. Masi and G. Assanto, Prism coupling into second-order nonlinear waveguides 95

K.-H. Park, T. Mizumoto and Y. Naito, Recognition and separation of header for all optical ATM 99

S. Gangopadhyay and S.N. Sarkar, Misalignment considerations in laser diode to single-mode fibre excitation via hyperbolic lens on the fibre tip 104

J. Yu, K. Guan and B. Yang, Effects of different compensation configurations and ratios on a high speed lightwave system 109

C.-T. Li, J. Li, S. Yin, T.D. Hudson and D.K. McMillen, Synthesize multi-level composite filter for synthetic-aperture radar image identification 285

M.V. Pérez, C. Bao and C. Gómez-Reino, On-axis and off-axis butt-joining coupling by GRIN tapered planar waveguides with hyperbolic secant refractive-index profiles: Numerical aperture conversion and position and angle transformations 302

Atomic, molecular and plasma physics

K.Z. Hatsagortsian and A.L. Khachatryan, The effect of energy and angular spread of an electron beam on the stimulated Coherent Bremsstrahlung gain in a crystal 114

P. Zemánek and C.J. Foot, Atomic dipole trap formed by blue detuned strong Gaussian standing wave 119

Condensed matter

M. Krüger, S. Hilbrich, M. Thönissen, D. Scheyen, W. Theiß and H. Lüth, Suppression of ageing effects in porous silicon interference filters 309

Quantum optics

A.S. Shumovsky and Ö.E. Müstecaplıoğlu, Radiation phase and Stokes parameters 124

S. Bay and P. Lambropoulos, Strongly non-Lorentzian emission spectra in a radiative cascade 130

Lasers

G. Giacomelli, F. Marin, M. Gabrysch, K.H. Gulden and M. Moser, Polarization competition and noise properties of VCSELs 136

O.S. Brozek, V. Quetschke, A. Wicht and K. Danzmann, Highly efficient cw frequency doubling of 854 nm GaAlAs diode lasers in an external ring cavity 141

Z.E. Penman, P. Loza-Alvarez, D.T. Reid, M. Ebrahimzadeh, W. Sibbett and D.H. Jundt, All-solid-state mid-infrared femtosecond optical parametric oscillator based on periodically-poled lithium niobate 147

L. Luo, T.J. Tee and P.L. Chu, Bistability of erbium-doped fiber laser 151

M. Rosenbluh, A. Rosenhouse-Dantsker, A.D. Wilson-Gordon, M.D. Levenson and R. Walser, Spectroscopy with diode-laser noise 158

P. Rambaldi, R. Moncorgé, J.P. Wolf, C. Pédrini and J.Y. Gesland, Efficient and stable pulsed laser operation of Ce:$LiLuF_4$ around 308 nm 163

T. Omatsu, A. Katoh, K. Okada, S. Hatano, A. Hasegawa, M. Tateda and I. Ogura, Investigation of photorefractive phase conjugate feedback on the lasing spectrum of a broad-stripe laser diode 167

D.J. Binks, D.K. Ko, L.A.W. Gloster and T.A. King, Pulsed single mode laser oscillation in a new coupled cavity design 173

L.A.W. Gloster, P. Cormont, A.M. Cox, T.A. King and B.H.T. Chai, Diode-pumped Q-switched Yb:S-FAP laser 177

K.S. Syed, G.J. Crofts and M.J. Damzen, Transient modelling of a self-starting holographic laser oscillator 181

R.N. Li, S.T. Jia, D. Bloch and M. Ducloy, Frequency-stabilization of a diode laser with ultra-low power through linear selective reflection 186

P. Peterson and M.P. Sharma, Back-reflection pumping versus contradirectional pumping in upconversion solid state lasers 189

S.N. Atutov, R. Calabrese, V. Guidi, P. Lenisa, E. Mariotti, L. Moi, S. Petruio and A.M. Shalagin, Frequency stabilisation of a broad-band dye laser by light-induced drift 196

C. de Lisio, C. Altucci, C. Beneduce, R. Bruzzese, F. De Filippo, S. Solimeno, M. Bellini, A. Tozzi, G. Tondello and E. Pace, Analysis of efficient generation and spatial intensity profiles of high-order harmonic beams produced at high repetition rate 316

J.-L. Vey, K. Auen and W. Elsäßer, Intensity fluctuations correlation for a Fabry Perot semiconductor laser: A semiclassical analysis 325

S. Coen and M. Haelterman, Impedance-matched modulational instability laser for background-free pulse train generation in the THz range 339

Nonlinear optics

M.-D. Wei, W.-F. Hsieh and C.C. Sung, Dynamics of an optical resonator determined by its iterative map of beam parameters 201

G.Yu. Kryuchkyan, N.T. Mouradyan and A.S. Sargsian, Controlling instabilities in an intracavity frequency doubler 208

N. Korneev, D. Mayorga, S. Stepanov, A. Gerwens, K. Buse and E. Krätzig, Characterization of photorefractive strontium-barium niobate with non-steady-state holographic photocurrents 215

J. Neumann, S. Mendricks, E. Krätzig, M. Goulkov and S. Odoulov, Photorefractive light amplification by forward four-wave mixing in $BaTiO_3$ 220

V.K. Mezentsev and S.K. Turitsyn, Soliton with Gaussian tails as a carrier pulse in optical communication systems with in-line phase modulators 225

O. Bang, L. Bergé and J.J. Rasmussen, Wave collapse in bulk media with quadratic and cubic responses 231

R. Bonifacio, Photon statistics and quantum fluctuations in a Collective Atomic Recoil Laser (CARL) 236

I. Cristiani, P. Franco, M. Midrio and M. Romagnoli, Pulse generation and propagation beyond the limit of soliton spectral resonances 241

J.T. Mendonça, K. Hizanidis and D. Frantzeskakis, Method for generating tunable high-frequency harmonics in periodically modulated $\chi^{(2)}$ materials 245

W.-I. She and W.-K. Lee, Crystal–air interface enhanced self-pumped phase conjugation in photorefractive crystals 249

R. Gadonas, A. Marcinkevičius, A. Piskarskas, V. Smilgevičius and A. Stabinis, Travelling wave optical parametric generator pumped by a conical beam 253

M.G. Payne, L. Deng and W.R. Garrett, Third harmonic generation and destructive interference with femtosecond laser pulses 257

A.J. Poustie, K.J. Blow and R.J. Manning, Storage threshold and amplitude restoration in an all-optical regenerative memory 262

G. Sommerer, E. Mevel, J. Hollandt, D. Schulze, P.V. Nickles, G. Ulm and W. Sandner, Absolute photon number measurement of high-order harmonics in the extreme UV 347

G. Leo and G. Assanto, Multiple branching of vectorial spatial solitary waves in quadratic media 356

X.F. Wang, R. Fedosejevs and G.D. Tsakiris, Observation of Raman scattering and hard X-rays in short pulse laser interaction with high density hydrogen gas 363

H. Lin, A. Yousuf, D.W. Weir and L.S. Auger, Low reflectivity and instability of a self-pumped phase conjugator caused by reflection gratings in $+c$-face incidence 371

Erratum

L. Gong, Q. Li and Y. Chen, Electromagnetic field analysis of a curved antiresonant reflecting optical waveguide (Optics Comm. 138 (1997) 293) 379